

Steinn Sigurdsson

Report on NAI funded "Extreme Habitability" Workshop, Santorini June 2007

EXTREME HABITABILITY: DDF WORKSHOP REPORT

The workshop on "Extreme Habitability" was held under the auspices of the "Extreme Solar Systems" conference on Santorini, June 29th 2007.

Directors Discretionary Funding, totaling \$9000, was used to provide partial support for the travel and local costs for a group of researchers, including NAI affiliated members and junior researchers, and registration (only) for foreign participants and certain federally supported participants. Support was provided to speakers in the "Extreme Habitability" session of the conference, which took place on the last day of the meeting. Despite the workshop being appended to the meeting, the room was full for the workshop, with overflow on the balcony. A number of people delayed their departure for the evening ferry to attend the final session.

Partial support was provided to: Apai (U. Az), Edelstein (LLNL), Haghighipour (U Hawaii), Lin (UCSC), Mardling (Monash), Ramsey (PSU), Sahu (STSCI), Sigurdsson (PSU) and Valencia (Harvard). Fogg (London) declined funding and Tinetti did not send in the necessary paperwork for reimbursement of registration cost.

Following talks were presented at the session, which was chaired by Sigurdsson:

Larry Ramsey - "Warm Planets around Cool Stars: Searches for Habitable Zone Planets around Late M Dwarfs"

Jerry Edelstein - "Searching for Cool-Star Exo-Planets in the Near Infrared"

Giovanna Tinetti - "Habitability of Super-Earths"

Diana Valencia - "Super Earths Evolution: Towards Habitability"

Nader Haghighipour - "Habitability of Planets in Binaries"

Martyn Fogg - "Terrestrial Planet Formation in Hot-Jupiter Systems"

Rosemary Mardling - "Inflated Planets and Their Low-Mass Companions"

Daniel Apai - "Planetary Systems around the Coolest Stars: Formation, Properties, and Habitability"

Each talk was followed by an extensive discussion period.

The second part of the session was a panel discussion, with D. Lin as panel chair and floor discussion moderated by Sigurdsson. Haghighipour took notes. Panel members were: Ford, Lin, Lissauer, and Sasselov. The discussion period was quite lively, and continued to the formal close of the meeting.